

SEQUENCE LISTING

<110> TYRRELL, JOHN V.
BERGQUIST, PATRICIA R.
BERGQUIST, PETER L.
SCHOLIN, CHRISTOPHER A.

<120> COMPOSITIONS AND METHODS FOR DETECTING RAPIDOPHYTES

<130> 50681200121

<140> To be assigned
<141> Herewith

<150> 09/596,136
60/141,362
<151> 2000-06-16
1999-06-28

<160> 30

<170> PatentIn Ver. 2.1

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GWATTACCGC GGCKGCTG

18

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<220>
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<220>
<223> oligonucleotide probe

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<223> M is A or C; W is A or T/U.

<400> 2
CAGCMGCCGC GGTAATWC

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<220>
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CGACTGAGCA CGCACCTTT 19

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GCGACGGCAA AAAGACCAGG A 21

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<400> 6
AGCAAAGGTC CTCCGTCCTA 20

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TACTCTCTTT TCAAAAGTCT TTTCATC 27

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AGAGCTCATG TTGTAAATCT GGATGAGGAT TCCTCGTCCC GAATTGTAGT CTAGAGATGC 120
GTGCTCAGCT ACTCTCCAGG GCTAAGTCTG TTTGTGAAAG ACAGCATCAT GGACGGTGAT 180
AATCCGGTTC TTGCCTTGGA TGTGTAGCG TCTTGAGCCG TCCTCAACGA GTCGAGTTGC 240
TTGGGATTGC AGCTCTAAGC GGGTGGTAAA TTCCATCTAA AGCTAAATAT TGGTGGGAGA 300
CCGATAGCGA ACAAGTACCG TGAGGGAAAAG ATGAAAAGAA CTTTGAAAAG AGAGTTAAAT 360
AGTACCTGAA ACTGCTGAAA GGAAGCGGAA TGAAGTCAGT GTTGCTCTTT GTTCTCTGCA 420
TCCTCCCTGC GGGGATTGTG TATCGAGGAC TTTGAGCTTG TCAGGATGAG TTCTCTGCCG 480
CGGGATATGG TTTGTGAGCT GGATGCTTCT GCTGAACTCA CTCTCTCTGT CGTGGCTTGG 540
ACTGAGGTTC CATCTTGCCG TTGCCTGCTT GTTACTCTCC TGTGCTGTT TCTGTCCTAC 600
TGCTTGCAAGT GTTCGGTTGC AGTGATTGGA CTGTGCAAGT TATGCATGCA AGGTGAGGAT 660
CCTGACGAAT GGCTTTATTA ACCCGAA 687

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<212> DNA
<213> Chattonella subsalsa

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TGTTGTAAAT CTGGATGAGG GTTCCTCGTC CCGAATTGTA GTCTAGAGAT GCGTGCTCAG 120

CTACTCTCCA GGGCTAAGTC TGTGTTGTGAA AGACAGTGTC ATGGACGGTG ATAACCCGGT 180
TCTTGCCCTTG GATGTTGTAG CGTTTTGAGC CGTCCTCAAC GAGTCGAGTT GCTTGGGATT 240
GCAGCTCTAA GTGGGTGGTA AATTCCATCT AAAGCTAAAT ATTGGTGGGA GACCGATAGC 300
GAACAAGTAC CGTGAGGGAA AGATGAAAAG AACTTTGAAA AGAGAGTTAA ATAGTACCTG 360
AAACTGCTGA AAGGGAAGCG AATGAAGTCA GTGTTGCTCT TTGTGCTCTG CATCCTCCCT 420
GCGGGGATTG TGTATCGAGG ACTTTGAGCT TGTCAGGATG AGTTCTCTGC CGCGGGATAT 480
GTTTTGTATG CTGGATGCTT TTTGCGGAAC ATACATTCTC TGTCGTGGCT TGGACTGAGG 540
TTCCATCTTG CCGTTGCCCTG TGCCTTCCTC TCCCGTTGCT GTCTCTGTTC TACTGCTTGC 600
AGTGCTCAGT TGCAGTAGTT GGACTGTGCG TATTATGCAT GCAAGGTCAG GATCCTGACG 660
AATGGCTTTA TTCACCCGCA A 681

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<211> 703

<212> DNA

<213> Fibrocapsa japonica

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GATGTAAATC TGGGTGACGT TTCGTTACCC CGAATTGTAG TCTACAGAAG CGTGTCCAGC 120
CGCGCCCCCT GGCAAAGTCC CCTGGAACGG GGCATCGTGG ACGGTGACAA TCCGGTTTCAT 180
GCCTGGGGTG TCGCGTGTGT ACGGGCCGTT TTCAACGAGT CGAGTTGCTT GGGATTGCAG 240
CTCTAAGCGG GTGGTAAATT CCATCTAAAG CTAAATATTG GTGGGAGACC GATAGCGAAC 300
AAGTACCGTG AGGGAAAGAT GAAAAGAACT TTGGAAAGAG AGTTAAACAG TACCTGAAAT 360
TGCTGAAAGG GAAGCGAAGG AAGTCAGTGT ATGCCGGGGG TCATATTTTCG TGCTGCCTTG 420
AGGGGTAGTG CGCGCTGTGT CCCATGGGCT GGTCAGGATG GGTGTTGTTCC GCGGGAGATT 480
CCCAGGGTTG AGGTAGGTCC TTTTGGATTG TCAGCAACCC TGTGGCATGT CGTGGTTCCG 540
ACCGAGGCAT TAGTGCACCT TGGTTTGTAC GGTGTTTATAT GCGTGATCAT GTCTGTGACA 600
GCATGCTGTG GCGGTTGTGT TATCGTTTAT TTGCCTTGCA TTCCCCGTGC GCTCTAGATC 660
CTGTCAAATG GCTTTCTTCC ACCTCTTGAA AGACGGACCA AGG 703

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<213> Heterosigma akashiwo

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ACCCGCTGAA TTTAAGCATA TAATTAAGGG GAGGAAAAGA AACCAACTCG GATTCCCCTA 60
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TAGTCTAAAG GTGCGTGCTC AGTCGTGGTC CCGGGCTAAG TCTGTTGGAA AACAGCATCA 180
TGGACGGTGA CAATCCGGTT CTTGCCTGGG GTCCCGCGGC GTACGAGCCG TTTCCGACGA 240
GTCGTGTTGC TTGGGATTGC AGCACTAAGT GGGTGGTAAA TTCCATCTAA AGCTAAATAT 300
TGGTGGGAGA CCGATAGCGA ACAAGTACCG TGAGGGAAAG ATGAAAAGAC TTTTGAAAAG 360
AGAGTAAAAT AGTACCTGAA ACTGCTGAAA GGGAAGCGAT TGAAGTCAGT GTTGCTCCTG 420
GTCTTTTTGC CGTCGCCCCC GTGGGGGTTG CGGCGTGGGG CCTGGAGCGT TTCAACATGC 480
GTTCTGTTCC GCGGGAAATG TTCAGTGTGC TGGAACCTTCG GGGAAACGCA CTGTTCTTGT 540
CGTGGTTAGG ACGGAGGACC TTTGCTCCTT TGACTGCGCG TTCCTCTCTC GGGTATGCTG 600
GTGTCTACTG CTTGCAGTTT TCATTTTCAT GCTTGCGACT GTGCGTGTTA TTCATGAGCG 660
AACATGATGT TGAAGAAATG GCTTTAATTA CCCCCTCTTG AAACACGGAC CAAGG 715

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AGCCGTGCTC CAGGGCTAAG TCTGTTGGAA AACAGCATCA TGGACGGTGA TAATCCGGTT 180
CTTGCCCTGG GTGTTGCGGT GTACGAGCCG TGATCCACGA GTCGAGTTGC TTGGGATTGC 240
AGCTCTAAGC GGGTGGTAAA TTCCATCTAA AGCTAAATAT TGGTGGGAGA CCGATAGCAA 300
ACAAGTACCG TGAGGGGAAAG ATGAAAAGAA CTTTGAAAAG AGAGTTAAAA AGTACCTGAA 360
ATTGCTGAAA GGGAAGCGAA TGAAGTCAGT GTCTGCTCCT GGTTGTATTT TCGGAGTCCC 420
TGCGGGGATT CCGGCACTGT GGCCTGGAGC ATGTCAGGAT GAGTTCTCTG CCGTGGGATA 480
TGTTTGGTGG GATTGGTACC TTCGGGGAAA CCCGCCACTC TTGTCATGGC TTGGACTGAG 540
GTTCCATCTC GCCGTTTGCC TGCCCGTCGC TCTCTGCCGG TTGTTGCTGT CCTACTGCTT 600
GCAGTGCTCA GCTGCAGCTG ACTGACTGTG CGGGTCATGC ATGCGAGGTC AGGATCCTGA 660
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PCR Primer

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<210> 30

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<223> Description of Artificial Sequence:Artificial

PCR Primer

<400> 30

CCTTGGTCCG TGTTTCAAGA 20